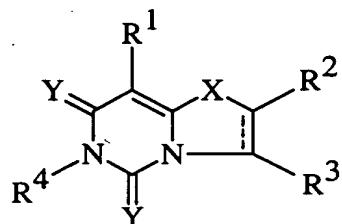


ABSTRACT

Selective MMP-13 inhibitors are bicyclic pyrimidines of the Formula I



I

or a pharmaceutically acceptable salt thereof,

5 wherein R<sup>1</sup> is hydrogen or alkyl; R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> include hydrogen, halo, alkyl, C≡C(CH<sub>2</sub>)<sub>m</sub> aryl, CO<sub>2</sub> alkyl, CO<sub>2</sub>(CH<sub>2</sub>)<sub>m</sub> aryl, COHN alkyl, and CONH(CH<sub>2</sub>)<sub>m</sub> aryl; and X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHO, NH, or NR<sup>5</sup>.

A compound of Formula I, or a pharmaceutically acceptable salt thereof, is useful for treating cancer or arthritis.

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